Rachel Cavill

List of Publications by Year
in descending order

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25 papers	1,614 citations	567281 15 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	3079 citing authors

#	Article	IF	Citations
1	Metabolic Profiling of Human Colorectal Cancer Using High-Resolution Magic Angle Spinning Nuclear Magnetic Resonance (HR-MAS NMR) Spectroscopy and Gas Chromatography Mass Spectrometry (GC/MS). Journal of Proteome Research, 2009, 8, 352-361.	3.7	414
2	Transcriptomic and metabolomic data integration. Briefings in Bioinformatics, 2016, 17, 891-901.	6.5	207
3	Identification of platelet function defects by multi-parameter assessment of thrombus formation. Nature Communications, 2014, 5, 4257.	12.8	191
4	Cytotoxicity of polycations: Relationship of molecular weight and the hydrolytic theory of the mechanism of toxicity. International Journal of Pharmaceutics, 2017, 521, 249-258.	5.2	153
5	Bioinformatic methods in NMR-based metabolic profiling. Progress in Nuclear Magnetic Resonance Spectroscopy, 2009, 55, 361-374.	7.5	91
6	Consensus-Phenotype Integration of Transcriptomic and Metabolomic Data Implies a Role for Metabolism in the Chemosensitivity of Tumour Cells. PLoS Computational Biology, 2011, 7, e1001113.	3.2	83
7	Delineation of the Key Aspects in the Regulation of Epithelial Monolayer Formation. Molecular and Cellular Biology, 2013, 33, 2535-2550.	2.3	71
8	High-throughput elucidation of thrombus formation reveals sources of platelet function variability. Haematologica, 2019, 104, 1256-1267.	3.5	70
9	Defined High Molar Mass Poly(2â€Oxazoline)s. Angewandte Chemie - International Edition, 2018, 57, 15400-15404.	13.8	68
10	Metabolic response to low-level toxicant exposure in a novel renal tubuleepithelial cell system. Molecular BioSystems, 2011, 7, 247-257.	2.9	60
11	Assessment of a complete and classified platelet proteome from genome-wide transcripts of human platelets and megakaryocytes covering platelet functions. Scientific Reports, 2021, 11, 12358.	3.3	40
12	Extensive temporal transcriptome and microRNA analyses identify molecular mechanisms underlying mitochondrial dysfunction induced by multi-walled carbon nanotubes in human lung cells. Nanotoxicology, 2015, 9, 624-635.	3.0	28
13	Role of Platelet Glycoprotein VI and Tyrosine Kinase Syk in Thrombus Formation on Collagen-Like Surfaces. International Journal of Molecular Sciences, 2019, 20, 2788.	4.1	28
14	Platelet-primed interactions of coagulation and anticoagulation pathways in flow-dependent thrombus formation. Scientific Reports, 2020, 10, 11910.	3.3	21
15	DTW4Omics: Comparing Patterns in Biological Time Series. PLoS ONE, 2013, 8, e71823.	2.5	16
16	A Combined Metabonomic and Transcriptomic Approach to Investigate Metabolism during Development in the Chick Chorioallantoic Membrane. Journal of Proteome Research, 2010, 9, 3126-3134.	3.7	15
17	Effect of the Histone Deacetylase Inhibitor Trichostatin A on the Metabolome of Cultured Primary Hepatocytes. Journal of Proteome Research, 2010, 9, 413-419.	3.7	12
18	Proteomic and metabolomic responses to connexin43 silencing in primary hepatocyte cultures. Archives of Toxicology, 2013, 87, 883-894.	4.2	12

#	Article	IF	Citations
19	Pattern recognition methods to relate time profiles of gene expression with phenotypic data: a comparative study. Bioinformatics, 2015, 31, 2115-2122.	4.1	6
20	Defined High Molar Mass Poly(2â€Oxazoline)s. Angewandte Chemie, 2018, 130, 15626-15630.	2.0	6
21	A Combination of Transcriptomics and Metabolomics Uncovers Enhanced Bile Acid Biosynthesis in HepG2 Cells Expressing CCAAT/Enhancer-Binding Protein Î² (C/EBPÎ²), Hepatocyte Nuclear Factor 4Î± (HNF4Î±), and Constitutive Androstane Receptor (CAR). Journal of Proteome Research, 2013, 12, 2732-2741.	3.7	5
22	PSnpBind: a database of mutated binding site proteinâ€“ligand complexes constructed using a multithreaded virtual screening workflow. Journal of Cheminformatics, 2022, 14, 8.	6.1	5
23	Exploring the influence of cytosolic and membrane FAK activation on YAP/TAZ nuclear translocation. Biophysical Journal, 2021, 120, 4360-4377.	0.5	4
24	Use of deep learning methods to translate drug-induced gene expression changes from rat to human primary hepatocytes. PLoS ONE, 2020, 15, e0236392.	2.5	3
25	Heterogeneous Domain Adaptation for IHC Classification of Breast Cancer Subtypes. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 17, 1-1.	3.0	2